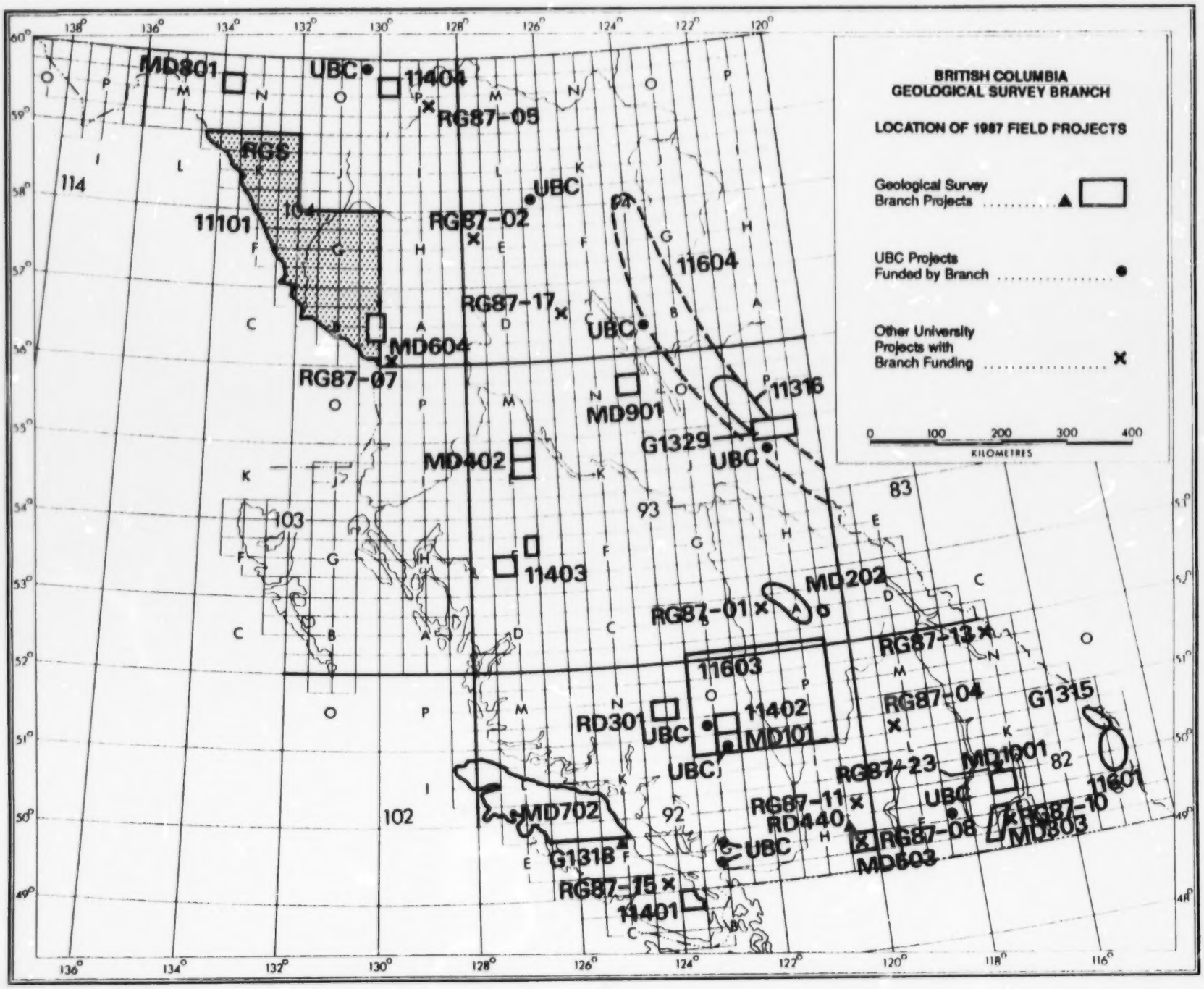
Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

GEOLOGICAL SURVEY BRANCH

1987-88 PROJECT INVENTORY

Victoria 1987
Information Circular 1987-7


BRITISH COLUMBIA
GEOLOGICAL SURVEY BRANCH
LOCATION OF 1987 FIELD PROJECTS
Geological Survey Branch Projects
UBC Projects Funded by Branch
Other University Projects with Branch Funding
0 100 200 300 400
KILOMETRES
MD801
UBC
11404
RG87-05
RG87-06
114
11101
104
UBC
RG87-02
11604
RG87-17
UBC
MD604
RG87-07
MD901
11316
G1329
UBC
MD402
103
93
83
11403
MD202
RG87-01
RG87-13
11603
RG87-04
G1315
RD301
UBC
11402
MD101
UBC
RG87-23
MD1001
82
11601
RG87-11
RD440
UBC
RG87-10
MD702
102
92
RG87-08
MD803
MD603
G1318
UBC
RG87-15
11401

Year: 1987-88
Section: Mineral Deposits & Regional Mapping
Category: Mineral Deposits and Metallogenic Mapping

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M - MDA A - 'A' Base
G1409/ MD 402	D.G. MacIntyre/ P. Desjardins	Babine Range	Precious and base metal vein occurrences in the Babine Range are currently being explored. Several new Au-Ag veins have been discovered on Dome Mountain and are currently being drilled. The area has not been mapped in detail and many of the vein occurrences are not included in the existing mineral inventory. Detailed mapping of the Babine Range began in 1986 and will be continued in 1987 and 1988.	Babine Range 93E/10,15	90	$54,000 (M) $26,500 (A) $80,500
MD 503	G.E. Ray/ G. Dawson	Hedley Mapping Project	To geologically map (at 1:20,000 scale) a 600 sq. km. area in the Hedley Gold Camp and establish the controls of the widespread gold mineralization. This study focusses on the controls of mineralization and the geochemistry of its numerous stratigraphically controlled gold carbonate vein deposits. In 1987 the host stratigraphy will be traced north and southward.	Hedley 92H/8	90	$70,000 (A)
MD 604	D.J. Alldrick/ J. Britton	Sulphurets Project	The Boundary Range near the Sulphurets Glacier has been the focus of intensive exploration efforts for the past six years. Many new gold and silver discoveries have been reported and preliminary development work is underway at two properties. This project in the Sulphurets area will produce a 1:25,000 geological map of the district, accurately locating the many new deposits and several extensive gossan zones in the region. Detailed studies will determine the geological controls of the mineral deposits to assist ongoing exploration efforts.	Boundary Range 104B	50	$81,000 (A)

Year: 1987-88
Section: Mineral Deposits & Regional Mapping
Category: Mineral Deposits and Metallogenic Mapping

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M - MDA A - 'A' Base
1331	A. Ettlinger	Gold Skarn Project	Gold enriched skarns in B.C. are poorly understood. The geochemistry, mineralogical paragenesis and controlling features of the skarns will be documented. Studies will be undertaken to compare these gold skarns with other, better known skarn classes (Fe, Cu, W, Zn-Pb, Mo and Sn). A compilation of skarn-related deposits and occurrences in the province will be completed in 1987. Field work will be carried out on Banks Island and Nahatlatch (Boston Bar) occurrences.	Various	65	$56,000 (M)
	G. Nixon	Ultramafic Project	Ultramafic and mafic igneous rocks are potential hosts to PGE, Cr, Ni, Co, asbestos and jade deposits and are spatially related to gold deposits. Stage 1 of this project in 1987 will examine the mineral potential of Alaskan-type ultramafic bodies near Tulameen and Hope and in Skeena River area near Prince Rupert. It will stress PGE's.	Various	80	$132,000 (M)

GEOLOGICAL SURVEY BRANCH
Project Inventory

Year: 1987-88
Section: Resource Data and Analysis
Category: Mineral Deposits and Metallogenic Mapping

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M - MDA A - 'A' Base
RD310	G.P. McLaren	Mineral Potential of Chilko-Taseko Lakes Area	Two seasons of 1:50,000 mapping and geochemical studies in the Chilko-Taseko Lakes area has confirmed a potential for the discovery of epithermal precious metal deposits and porphyry copper-molybdenum-gold deposits. New mineral showings and numerous geochemical anomalies have been identified. This final phase of the project will allow compilation and publication of results.	Chilcotin	7	$5,100 (A)

GEOLOGICAL SURVEY BRANCH
Project Inventory

Year: 1987-88
Section: District Geology and Coal
Category: Mineral Deposits and Metallogenic Mapping

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M - MDA A - 'A' Base
G1318	H.P. Wilton	Gold Metallogeny, Vancouver Island	Detailed studies will be undertaken of the numerous occurrences of epithermal precious metal mineralization of Tertiary age on and around Mt. Washington, Vancouver Island, for the purpose of better defining the process of formation and the areal extent of the mineralization.	Mt. Washington	15	$4,000 (A)
G1319	R.E. Meyers	Gold Mineralization, South Central B.C.	Detailed study and age dating of several gold deposits in south central B.C. that are hosted in Triassic Nicola volcanic and sedimentary rocks, and associated with leucocratic granitic plutons of probable Jurassic age. Detailed study and dating of six deposits to provide basis for comparison/ contrast and appraisal of regional potential.	Vidette Camp to Vernon	30	$4,000 (A)
G1320	D.V. Letebure	Metallogeny of Northwestern B.C.	An ongoing project to describe and better understand selected mineral deposits in northwestern British Columbia. In 1987 research will focus on precious metal deposits with fieldwork planned for the Iskut River, Kenny Dam and Atlin area. Preliminary investigations of volcanogenic massive sulphide deposits will also be carried out.	North-western B.C.	31	$17,000 (A)
	E.L. Paulkner	Placer Platinum in Central District	The project will investigate known and reported occurrences of platinum in placer deposits in the Central District. Reported platinum group elements in the central interior are of two types: slightly magnetic PGE from the Fraser River below Quesnel and non-magnetic PGE from the McDougall Ck-Parsnip River area. The objective is to verify and outline the extent of placer PGE occurrences, and identify possible bedrock sources.	Central Interior	15	$1900

GEOLOGICAL SURVEY BRANCH
Project Inventory

Year: 1987-88
Section: Mineral Deposits and Regional Mapping
Category: Regional 1:50,000 Mapping

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M - MDA A - 'A' Base
11401	N. Massey	Sicker Project	The band of predominantly volcanic rocks stretching from Port Alberni to Duncan has a very high potential for mineral deposits including gold-bearing polymetallic massive sulphides and gold-bearing quartz-carbonate veins in shear zones. This project will provide regional 1:50,000 mapping and elucidate the stratigraphy of the Sicker Group and provide a framework and metallogenic model for undertaking exploration for mineral deposits. 1987 work will focus on Duncan and Chemainus River area.	Duncan & Chemainus River 92B/13	90	$142,000 (M)
11402	K. Glover	Taseko-Bridge River Mapping Project	The Taseko-Bridge River regional mapping project will continue east from the Warner Pass map sheet, completed in 1986, onto the Noaxe map sheet. The area covered includes known precious metal and base metal occurrences and deposits in both epithermal and porphyry settings. The aims of this project are to provide a regional geological framework suitable for future mineral exploration, and to identify and to map the limits of mineralization, hydrothermal alteration and associated geological features.	Noaxe Creek 920/2	100	$159,000 (M)
11403	L. Diakow	Whitesail	Epithermal and mesothermal veins containing variable amounts of Au-Ag-Cu-Pb-Zn occur in Chikamin and Whitesail ranges. Regional mapping at 1:50,000 scale in the Troitsa Peak and Whitesail Reach map sheets will define geologic parameters influencing the distribution of known mineral occurrences and assist in outlining new areas of precious metal exploration potential. The work will determine rock type limits and zones of alteration related to the precious metal mineralization and extend mapping northward.	Chikamin Range 93E/10E 93/6	90	$152,000 (M)

Year: 1987-88
Section: Mineral Deposits and Regional Mapping
Category: Regional 1:50,000 Mapping

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M - MDA A - 'A' Base
11404	J. Nelson	Midway-Cassiar Project	The area extending from Rancheria in the Yukon, to Cassiar, hosts a variety of precious metal exploration targets, particularly carbonate-hosted silver-lead, zinc mantos such as Midway, and gold quartz veins on an Erickson model within the Sylvester Allochthon. Mapping in 1987 will cover the Blue Dome map sheet and focus on defining favourable geologic settings for mineralization in the Sylvester Allochthon.	McDame 104P/12	100	$156,000 (M)
MD801	M. Mihalynuk	Atlin	The Atlin area is currently the site of active exploration mainly for gold. The area has high mineral potential, but is poorly mapped. Mapping in 1987 will begin in the Atlin Camp (104N/12) and is planned to cover 104N/11,12 and 104M/8,9, 10 & 15 in future years.	Atlin 104N/12	90	$121,000 (A)
MD901		Manson Creek	The Manson Creek area is underlain by an important belt of Triassic and Paleozoic volcanic and carbonate rocks that are hosts to important precious metal deposits. The area requires better geologic mapping than is currently available in order to better define areas of mineral potential. The project will begin with map sheet 93N/9 and will move northwestward into 93N/15, 94C/3, 4, 5 and 94D/8 in subsequent years.	Manson Creek 93N/9	90	$116,000 (A)
MD1001	D. Brown/ J. Logan	Kokanee	The Kokanee Glacier Park requires detailed mapping and geochemical studies to determine its mineral resource potential. This work will be done as part of the new regional mapping program. Mapping will begin in the Park and extend north and northeastward into adjacent map sheets.	Kokanee Park 82F/14	90	$113,000 (A)

GEOLOGICAL SURVEY BRANCH
Project Inventory

Year. 1987-88
Section Resource Data & Analysis
Category. Industrial Minerals

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M = MEM A = 'A' Base
11601	J. Pell	Economic Potential of Carbonatite and Kimberlite-hosted Deposits	Project will assess the economic potential of diamond and rare elements (Nb, Zr, Ree) in British Columbia Rocky Mountains and adjacent areas. Two microdiamonds have been reported from Golden area. Niobium and rare earth minerals are known from at least two B.C. locations. Geological controls of diatremes and carbonatites will be clarified. Completion of laboratory work and preparation of final reports and maps will be undertaken in 1987.	Eastern B.C.	0	$30,000 (M)
11603	P. Read Gentex Consultants	Evaluation of the Industrial Minerals Potential of Tertiary Basins	Prospecting for clay deposits, zeolites, pozzolanic rocks, diatomite, germanium and beryllium in Tertiary age environments will cover largely unexplored geological units in the B.C. interior. These basins are known to contain showings of ceramic and refractory clays and bentonite and by analogy are expected to have potential for pozzolans, zeolites and some other industrial minerals. The project will assess the economic potential for discovery of these types of deposits. The area between Kamloops-Cache Creek and Williams Lake-Gang Ranch will be covered in 1987.	Central B.C.	50	$62,000 (M)
11604	S. Butrenchuk	Evaluation of Phosphate Resource Potential in British Columbia	The project will provide an inventory of phosphate resources in British Columbia. Many phosphatic occurrences have been reported over the years, however, no up-to-date summary assessment is available. The phosphate beds are known to be approaching marginal commercial grades and the traditional supplying mines in Florida are nearing depletion. The 1986 program evaluated SE B.C. occurrences, the 1987 program will evaluate the NE part of the Rocky Mountains. The objective is to identify the most promising stratigraphic horizons with the best thickness and the best mineral economics.	North-eastern B.C.	80	$85,000 (M)

Year: 1987-88
Section: Resource Data & Analysis
Category: Industrial Minerals

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M - MDA A - 'A' Base
11606	J. Pell	Preliminary Assessment of Kyanite and Industrial Garnets in B.C.	Recent geological mapping projects in Kaza group and some other geological units in central B.C. discovered occurrences of kyanite rich schists ("kyanite dripstone"). Their economic potential has not been evaluated. It is proposed to compile the existing data from field notes and to outline the aluminum rich zones within the proper metamorphic grade and identify exploration targets. With the identification of "source areas" there is also a possibility to locate secondary deposits in glaciofluvial/ glaciolacustrine deltaic fans. Abrasive garnet is a valuable commodity in demand in the Pacific Northwest.	Central F&W Part of B.C.	Nil	$18,000 (M)
11609	Contract	Peat Resources Inventory in British Columbia	At present all peat sold in B.C. comes from the outside of the province. There is no peat inventory for B.C. even though many soils studies identified and classified peat land forms. Such scattered data will be researched and compiled into comprehensive data base and published for industry use. Compilation of data and publication of the results will be undertaken in 1987/88.	B.C.	Nil	$15,000 (M)
11610	Contract	Assessment of Talc Potential in B.C.	The B.C. pulp and paper industry consumes significant quantities of talc, all imported from USA. There is also a potential to replace imported kaolin by talc. Numerous occurrences of talc are known in B.C. and some were briefly examined by industry. The study will compile the available information, evaluate the reported occurrences and outline exploration targets and areas with good prospecting potential. The report will be prepared and published in 1987/88 year.	B.C.	Nil	$10,000 (M)
RD420	D. Hora G.V. White S. Butrenchuk	Industrial Minerals Map of B.C.	To prepare a comprehensive map showing the occurrence distribution and favourable regions for industrial mineral commodities in British Columbia.	B.C.	Nil	$10,000 (A)

Year: 1987-88
Section: Resource Data & Analysis
Category: Industrial Minerals

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M - MDA A - 'A' Base
RD430	G. White	Assessment of Dimension Stone Deposits in B.C.	Identification of potential sources of dimension stone in British Columbia. Old quarries and potential new sites were documented, mapped and sampled in 1986. In 1987 samples from each site will be subjected to standard physical and chemical tests. Final report and publication will be done in 1987.	Southern B.C.	Nil	$2,000 (A)
RD440	G. White	Assessment of Olivine Deposits in B.C.	To identify olivine deposits with potential for developmnet for foundry sand and/or refractory raw material. Geological mapping and sampling of the Tulameen ultramafic complex was undertaken in 1986. Laboratory analyses to determine samples with low serpentinization were completed in 1986. Preliminary tests on bulk samples by CANMET have been started in 1986. Further testing will be done in 1987 and a 300 kg bulk sample of favourable unserpentized zones will be collected.	Princeton	5	$4,000 (A)
RD450	G. White	Assessment of Feldspar Resource in B.C.	Identification of glass and ceramic grade feldspar resources in British Columbia to replace imported raw material. B.C. has an excellent opportunity to become a feldspar/nepheline syenite supplier for western glass/fibreglass industry. The work will consist of geological mapping, sampling, petrographic examinations and chemical analysis. Proposed sites are: 1) feldspathic sand on Scuzzy Creek; 2) phonolite near Princeton, 3) leucocratic granitoids between Rock Creek and Greenwood; 4) nepheline syenite in Blue River area. Copper Mountain feldspathic core will be examined for potential ceramic applications.	Southern B.C.	50	$19,000 (A)

Year: 1987-88
Section: Resource Data & Analysis
Category: Industrial Minerals

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M = MDA A = 'A' Base
RD460	Contract	Assessment of Magnetite Resource in B.C.	An inventory of magnetite deposits will be compiled to assist industry in identifying potential development opportunities. Magnetite is used in B.C. and Alberta in coal preparation plants. B.C.'s current production is from tailings recovery of past copper/iron deposits and this source is nearly depleted. This project will develop a comprehensive data base on magnetite. A report will be prepared and published in 1987/88 year.	B.C.	Nil	$15,000 (A)

GEOLOGICAL SURVEY BRANCH
Project Inventory

Year: 1987-88
Section: District Geology & Coal Resources
Category: Coal Studies

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M = MDA A = 'A' Base
G1315	D.A. Grieve	Elk Valley Coalfield, North Half	1:10,000 scale, orthophoto-based, detailed mapping in the north half of the Elk Valley coalfield. The study area contains some of the least explored portions of the East Kootenay coalfields and is one of the least-mapped regions of the southern Rockies. Studies will concentrate on surface traces of coal seams, formation contracts, structural features and detailed description of stratigraphic sections. Grab sampling of coal from outcrop locations and core will allow determination of petrographic rank distribution and preliminary assessment of coal quality.	Upper Elk Valley	70	$36,000 (A)
11316	A. Legun	Coal Trends in the Gething Formation	The Gething Formation contains large untapped coal resources in the Peace River Coalfield. This project will examine the stratigraphy and coal distribution of this formation to fully understand its coal producing potential. In 1987 field section measurement will be completed, borehole and log data will be compiled and coal trend maps produced.	Peace River Coalfield	30	$12,000 (M)
G1329	W. Kilby	Kinuseo	The Kinuseo area contains promising coal deposits of the Quintette/Babcock and Monkman properties. Semi-automated regional mapping of high potential coal areas in a cost efficient manner utilizing all existing data. A 1:50,000 scale compilation map of portions of 931/14 and 931/15 and computer files of outcrop and borehole data will be produced.	Kinuseo Falls & Creek	35	$64,000 (A)
	J. Koo	Economic Coal Geology of the Bowser Basin	The Klappan and Telkwa coal measures contain all economic coal deposits in the Bowser Basin. The regional geology of the two coal measures was mapped between 1982 and 1985. Laboratory and office work will continue in 1987 with emphasis on the stratigraphy, depositional environments, deformational structures, coal seam characteristics, and deposit types of the coal deposits and occurrences in the Bowser Basin. Final report due by 1988.	North-western B.C.	-	$3,000 (A)

Year: 1987-88
Section: District Geology and Coal Resources
Category: Coal Studies

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M - MDA A - 'A' Base
6	B. Wrightson	Digital Coal Deposit Modelling	To perform detailed coal deposit analysis using computer based digital modelling techniques. Priority deposits will be targeted for structural, quality and exploitability analysis. The project will begin with some minor field studies in NEBC (Monkman & Quintette). During the first year the computer hardware and software will be consolidated. Deposit models of Mt. Klappan, Quintette, Bullmoose and selected others will be constructed or updated and maintained in operational format.	B.C.	45	$70,000 (A)
	E. Smith	Coal Quality of B.C.	Compile and collect coal quality and quantity data for B.C. coals. Coal quality dictates the ultimate utilization of a coal. This project will compile all pertinent existing quality data and augment this with new data to provide a complete inventory of the province coal by quality and distribution. Detailed studies on specific deposits will break out the range of qualities, their potential uses and their distribution within the deposit.	B.C.	Nil	$60,000 (A)
	A. Matheson	Coal Quality Study for Domestic Thermal Market	Examine and document coals from producers and near producers with respect to the domestic thermal market. B.C. coal is low in sulphur and given competitive transportation cost could prove economic in the eastern Canadian market. Project will: 1) Research all available literature to identify areas for further study. 2) Field visits to collect samples for analysis. 3) Compilation of existing and resultant data. Project will provide data for studies such as Western Canadian Low Sulphur Coals in which scant attention was paid to the varietites of B.C. Coals.	B.C.	Nil	$2,400 (A)

Year: 1987-88
Section: District Geology and Coal Resources
Category: Coal Studies

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M = MDA A = 'A' Base
	C. Kenyon	Vancouver Island Coals	To compile and analyze all existing data on the Comox and Nanaimo coal basins to assist government and industry in assessing the potential of these areas with respect to new utilizations such as coal seam gas, coal-water fuel and traditional thermal applications.	Vancouver Island	10	$6,500 (A)
	C. Kenyon	COALFILE	Exploration data from coal company assessment reports have been summarized and stored in a computer information system called COALFILE, to provide a quick and efficient method for handling a large volume of data, both in-house and industry. Maintenance of this file is an ongoing project. In 1987 data from 1986 assessment reports will be entered.	B.C.	Nil	$12,700 (A)

GEOLOGICAL SURVEY BRANCH
Project Inventory

Year: 1987-88
Section: Resource Data and Analysis
Category: Mineral Database

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M = MDA A = 'A' Base
11701	A. Wilcox	MINFILE	MINFILE is the G.S.B.'s computerized mineral inventory database containing over 8800 occurrences for British Columbia. A major redesign of the computer hardware and software started in 1984, and phase I was completed in April 1987. Updating the database started in late 85/86 and over 3,000 occurrences were recorded and entered into the new system. In 1987 it is planned to code 4,000 occurrences and to make the file available by map sheet in hard copy and computer format. Personal computer and graphic capabilities will be developed in 1987.	B.C.	Nil	$150,000 (M)
RD200	T. Kalnins L. de Groot	Assessment Report Administration	In order to keep mineral claims in good standing under the Mineral Act, explorationists may submit the results of their programs as assessment reports. The Mineral Inventory subsection reviews these reports (1000/year) for compliance with the Mineral Act Regulations. The reports are subsequently made available for widespread use throughout the industry through free viewing on fiche in 28 locations. Photocopies, computer indices and maps and summaries in the annual 'Exploration' Volume are provided.	B.C.	Nil	$63,500 (A)
RD220	C. Borsholm T. Kalnins L. de Groot	Assessment Report System Re-design	This project will design and develop a computerized assessment report system to include: a tracking system, the Assessment Report index, Index Maps, 'Exploration in B.C.' Volume, P.A.C. Accounts, links to GEOSCAN and MINFILE and the ability to make ad hoc inquiries on assessment reports.	B.C.	Nil	$20,000 (A)

GEOLOGICAL SURVEY BRANCH
Project Inventory

Year: 1987-88
Section: Analytical Sciences
Category: Regional Geochemical Surveys

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M - MDA A - 'A' Base
11101	P. Matysek/ J. Gravel	Regional Geochemical Surveys	To provide basic geochemical data to National Geochemical survey standards to help private sector mineral exploration find new deposits. 1987 surveys will cover Iskut River, Sumdum and Telegraph Creek 1:250,000 map sheets. Sample collection and analysis will be done under contract.	Tulsequah (104K), 90 Iskut River (104B), Sumdum (104F), Telegraph Creek (104G)		$200,000 (M) 250,000 (A) $450,000

GEOLOGICAL SURVEY BRANCH
Project Inventory

Year: 1987-88
Section: Mineral Deposits and and Regional Mapping
Category: Geochemical Studies

Project #	Principal Researcher	Project Title	Project Statement	Area	No. of Days Fieldwork	$ Budget M - MDA A - 'A' Base
MD702	P. Matysek	Geochemical Interpretation	Implementation of geochemical research programs to provide the necessary controls for the practical application of exploration geochemistry. Orientation studies on Vancouver Island will be carried out in 1987 to help define appropriate sampling and analytical techniques for planned Regional Geochemical Surveys in 1988 and 1989. Platinum geochemical studies will provide guidelines to assist exploration companies to optimize geochemical methods.	B.C.	90	$105,000 (A)

GEOLOGICAL SURVEY BRANCH
Project Inventory

Year: 1987-88
Category: Geoscience Research Grant Program

Project #	Principal Researcher	Project Title	Project Statement	Area	$ Grant M = MDA A = 'A' Base
RG87-01	D. Melling (Ottawa-Carleton)	Q.R. Gold	To establish the geological setting of the Q.R. Gold deposit by field mapping and and drillcore logging. A genetic model will be developed to aid exploration for similar deposits.	093A/12	$5,000 (A)
RG87-04	B. Johnson (Carleton)	Sicamous	To carry out 1:50,000 scale mapping with particular emphasis on hangingwall-footwall relationships of the Eagle River Fault. Objectives of the study are to investigate the role of Tertiary extension tectonics and clarify the geometry and tectonic history of the accretion boundary exposed in the Sicamous area.	082L/14	$4,000 (A)
RG87-05	H. Plint (U. of Alberta)	Horseranch Range	The objective of this program is to investigate the structure, metamorphism and age of a probable metamorphic core complex in the Horseranch Range area of north-central B.C. The program should identify the resource potential for beryllium in pegmatites and PGM's in ultramafic rocks.	104P/07	$3,500 (A)
RG87-07	D. MacDonald (U. of W. Ontario)	Silbak Premier	This is a geological-geochemical research study of the Silbak-Premier ore minerals. The program is aimed at defining the vertical and stratigraphic controls to mineralization and the spatial distribution of individual mineral species. The data will be used to develop a genetic model for the deposit and to aid exploration in the region.	104A/04	$2,000 (A)
RG87-08	J. Rublee (Ottawa-Carleton)	Tulameen Ultramafic Complex	This study is designed to help constrain the pressure-temperature-time regime of the Tulameen Ultramafic Complex in south-central B.C. The objectives are to better define the crustal depth and tectonic significance of the ultramafics relative to the Nicola Volcanic Arc and the genesis of chrome and PGM mineralization.	092H/08	$6,000 (A)

Year: 1987-88
Category: Geoscience Research Grant Program

Project #	Principal Researcher	Project Title	Project Statement	Area	$ Grant M = MDA A = 'A' Base
RG87-09	Dr. B. Nesbitt (U. of Alberta)	Sulphur Isotopes	To undertake a study of sulphur isotopes from various gold deposits throughout B.C. The data acquired will be used to generate a sulphur isotope database which can be used for comparison of various deposits and to identify areas of special significance where sulphur isotope data would enhance research projects dealing with the geology and geochemistry of gold deposits.	Various	$1,000 (A)
RG87-10	N. Garrioch (Colorado School of Mines)	Lead Isotopes	This is a lead isotope study of several carbonate hosted lead-zinc deposits in the Nelson area of southeastern B.C. The objectives are to define the probable source of the metals in these deposits and possibly how, and if, the source may have changed over time. The project will include the detailed mapping of at least one deposit.	082F/03	$5,000 (A)
RG87-13	O. Ijewliw (Queens)	Golden Ultramafic Diatremes	This is a detailed geological and geochemical investigation of the ultramafic diatremes and related dikes in southeastern B.C. The study will include the examination of the "HP", "Larry" and "Mark" diatremes. Research will consist of mapping and sampling designed to develop a model for the mode of emplacement and a crystallization history for the individual diatremes.	082N/14	$5,000 (A)
RG87-15	Dr. E. Van der Flier-Keller (U. of Victoria)	Nanaimo-Comox Coal	This is a study designed to identify the nature of inorganic matter contained in coal of the Nanaimo and Comox coal deposits. The data generated will help determine the behavior of the coals during utilization and will help assess the potential of these coals for alternate uses.	092G/01	$3,000 (A)

Year. 1987-88
Category Geoscience Research Grant Program

Project #	Principal Researcher	Project Title	Project Statement	Area	$ Grant M = MDA A = 'A' Base
RG87-17	K. Bellefontaine (McGill)	Ingenika Range	This is a detailed geological mapping project centered in the Ingenika Ranges in the Swannell River and Johansen Lake areas of north-central B.C. It is designed to identify the structural and metamorphic evolution of the Ingenika Group and to identify the tectonic history of this section of the Omineca Crystalline Belt and Intermontane Zone. The project will generate 1:20,000-scale geology maps of the selected areas.	094C/12	$3,500 (A)
RG87-23	E. Persaud (U. of Alberta)	Slocan Group	This project will involve mapping and geochemistry of the Slocan Group of rocks in southeastern B.C. It will concentrate on defining the thickness, structure and provenance or true tectonic setting of this group. The research will include chemistratigraphic mapping to identify marker horizons and will identify the age and genesis of the high-grade silver deposits in the area.	082K/03	$5,000 (A)

GEOLOGICAL SURVEY BRANCH
Project Inventory

Year: 1987-88
Category: University of British Columbia Research Agreement

Project #	Principal Researcher	Project Title	Project Statement	Area	$ Grant M = MDA A = 'A' Base
11324 (1)	Dr. K. Fletcher	Geochemical Exploration Methods for Gold in Stream Sediment	Field and lab studies to evaluate the use of -270 mesh stream sediment as a sampling medium for gold exploration. Preliminary results indicate that nugget effects are minimized with fine mesh size, but case studies are required to confirm the concept.	B.C.	$6,000 (M)
11324 (2)	J. Broatch	Palynological Zonation and Correlation of the Peace River Coalfield	Completion of research aimed at determining ages, correlation, and sedimentary environment for Cretaceous and Jurassic segments of the Minnes Formation at the northern and southern ends of the coalfield. Age and correlation of the coal-bearing units are currently unknown.	Peace River Coalfield	$6,500 (M)
11324 (3)	D. Payne	Warner Pass Petrology	Detailed mapping and chemical analysis of well exposed Eocene volcanic rocks in conjunction with regional mapping by Dr. K. Glover.	Warner Pass 920	$3,000 (M)
11324 (4)	unknown	Franklin Camp Petrology	Detailed mapping and petrographic studies of the Tertiary plutonic and volcanic rocks ot the Franklin Camp area.	Franklin Camp	$5,000 (M)
11324 (5)	J. Bradford	Genesis of the Silver Creek Carbonate-Hosted Deposit	Fluid inclusion and S-isotope studies aimed at improving understanding the genesis of this important silver deposit.	Midway 1040/16	$2,000 (M)
11324 (6)	Dr. C. Godwin	Pb Isotope Analyses	Continuing studies of Pb isotope ratios to develop models to guide exploration.	B.C.	$5,000 (M)
11324 (7)	C. Leitch	Bralorne-Pioneer Gold Vein System	Fluid inclusion studies of the Bralorne-Pioneer vein system to improve understanding of zoning and genesis.	Bralorne 92J	$2,000 (M)
11324 (8)	D. Reddy	Geology of the Indian River/Britannia Volcanic Belt	Extend known stratigraphy from Britannia into the Indian River area. Examine relationship of Indian River shear zone and Indian River thermal aureole to localization of ore.	Indian River	$10,500 (M)
11324 (9)	Dr. M. Orchard	Conodont Studies, Kechika Trough	Develop a biochronologic framework for the Kechika Trough to date stratiform mineral deposits and correlate host strata.	Kechika Trough	$5,000 (M)
11324 (10)	U. Mader	Aley Carbonatite	Continuation of mineralogical studies into this large carbonatite with the expectation of developing regional exploration guidelines.	Northern Rocky Mountains	$5,000 (M)